UNIVERSITY OF PRIZREN"UKSHIN HOTI"
FACULTY OF COMPUTER SCIENCE

PROGRAM: Software Design

SYLLABUS

Levels of studies		Master	**Program**	DS	**Academic Year**	2018/19	
SUBJECT		Computer Science					
Year	I-st	**Status of the subject**	O	**Code**		**ECTS credits**	6
Semester	I-st						
						Lectures	Exercises
Teaching weeks		15		Hours teaching 30+30		2	2
Teaching Methodology		Lectures, exercises, seminar papers, consultations, tests.					
Consultation							
The teacher		Prof.Ass.Dr.Samedin Krrabaj		e-mail	samedin.krrabaj@uni-prizren.com		
				Tel.	/		
Asisstant		Prof.Ass.Dr.Samedin Krrabaj		e-mail			
				Tel.			

Study goal and table of content	**Benefits of student**
The purpose of this course is to give students an introduction to the basic concepts of computer science: • Data and information code (coded) (ASCII, Unicode) • Systems of numbers (decimal, binary, hexadecimal, octal) • Hardware (Neumann architecture), • Software, • Basics of networking and programming languages.	After the course, each student is expected to be able to: • Practiced and uses (ASCII, Unicode) • Systems of numbers (decimal,, hexadecimal, binary, octal) • Describe the hardware (Neumann architecture) • To have an overview for types of software fixes and various • To have a look at the basics of networking and programming languages.

Methodology for the implementation of educational topics:

Lectures: Presentation in PDF format on the "Materials" page
Individual work:

- Learning (from lectures and additional literature)
- Individual work on a personal computer
- Homework

Conditions for realization of educational topics:

Adequate literature, table, computer, projector and other necessary IT tools for learning and exercises.

Ways of assessing of the student (in %) :

	Evaluation in%	**Final grade**
A seminar paper	10%	
Colloquia	30.00 %	51-60% - grade 6
Final test	60.00 %	61-70 7
Final Exam included three evaluation criteria;	10 + 30 + 60	71-80 8 81-90 9
Total	**100.00%**	91-100 10

Obligations of student:	
Lectures	**Exercises**
The student must be regular lectures and exercises, to use all possibilities for learning the knowledge required to use literature and wider, to be active and keep regulations on higher education in ethics and courtesy for cooperation.	The student must be active and reflective exercises and knowledge readiness initiatives, ideas and demonstration of knowledge gained in lectures.

Student workload for Subject

Activities	**Hour/ weeks**	**Days/Weeks**	**Total**
Lectures	2	15/15	30
Numerical exercises	2	15/15	30
Project	2	5/2	10
Preperation for first test	10	5/2	10
Preperation for second test	10	5/2	10
Preperation for numerical exercises	20	15 week	20
Preparation for final exam	40	15 week	40
Notice: 1 ECTS credits= 25 hour commitment, e.g. if the subject has 6 ECTS credits student must have 150 hours during the semester commitment.		**TOTAL:**	**150**

Week	**Lectures**		**Exercises**	
1.	**Topic**	**Hour**	**Topic**	**Hour**
	Numerical systems (decimal, and actions with these systems) • Positionals systems • Unpositional systems	2	Introduction to curriculum and content of seminar tasks. Working conditions for learning numerical exercises.	2
2.	Numerical systems (Hexadecimal and actions on this system)	2	• Unites the binary system. • Conversion of the number of decimal system in the binary. • Presentation of the hexadecimal number system.	2
3.	Numerical systems (Binary and octal and actions with these numerical system)	2	• Exercises about algebraic operations with decimals systems, binary, octal and hexadecimal.	2
4.	The exercises from numerical systems Presentation of numbers in PC	2	• Numerical iteration of the systems in general • Continue-Exercises about algebraic operations with decimals systems, binary, octal and hexadecimal.	2

	• Presentation of real numbers • Note the data on PC		• Examples of presentation of the real number in computer • Examples of the numerical data in computer	
5.	BCD codes, codes with weight, NBCD codes, actions Codes	2	• Example of coding decimal numbers, computer circuits, codes with weight.	
6.	Codes without weight, cyclic codes, optimal codes, different methods (Shannon-Fanos, Huffmanit)	2	• Numbers collection actions in XS3 code • Examples - cyclic codes for coding system digits octal	2
7.	Optimal code for the Albanian language alphabet, security codes, codes for error detection, stocks codex, codes for error detection and correcting.	2	• Exercise tasks - cyclic codes defined in tables for coding, optimal code alfabetine Albanian language, security codes	2
8.	Neumann architecture and detailing of various parts of the computer or its construction architecture, focusing in particular on each part and its function.	2	• Exercise tasks - codes for error detection, stocks codex, codes for error detection and correcting. • First colloquia	2
9.	Neumann architecture and detailing of various parts of the computer or its construction architecture, focusing in particular on each part and its function.	2	• Exercises on the use of different software • Access to Internet resources	2
10.	Microsoft Office Packet The history of the development of Microsoft Office • Common traits • File Formats • Versions of MSOffice	2	• Exercises on the use of different software • Access to Internet resources	2
11.	Introduction to Microsoft Excel • Creation and use of applications • Cells, rows, columns, formatting • Charts and Formulas	2	• Exercises in connection with the System configuration manager • File Management • Data Access Internet	2
12.	Database concepts. • Introduction to Databases, • EER - diagrams and relational aspects	2	• Exercises with Access for creating tables • Links between tables	2

	• Concepts of creating tables, primary and foreign keys • Using of various tools		• Creating reports with Access	
13.	The software of Presentations • Introduction to PowerPoint applications • Creation of applications (selection, editing, copying, zoom tools, change the background, layout, etc.)	2	• Exercises in connection with PowerPoint presentations (creation, maintenance, change, editing, formatting presentations) • Use the zoom, cutting the figures and manipulations with them	2
14.	Web Browsing and Communication • Background of the Internet and www • Web browser and their use • Search Engines • Electronic communication • Email and mail servers • Computer Viruses Second Colloquia	2	• Various exercises taught using different browsers • Exercises on the use of research engines for finding information on the web • Task and consultations for the exam.	2
15.	Consultations regarding the second colloquia Final exam: all the material from the cours		• Evaluation of their tasks and evaluation laboratory • Presentations of these tasks by students	2

LITERATURE

Basic Literature:

1. J. Glenn Brookshear Computer Science-An Overview, 9th Edition Addison Wesley Longman, 2007
2. Dr. Agni Dika, Qarqet komjuterike Kombinuese 1
3. N. Braha dhe F. Merovci, Bazat e einformatikes, 2006, Prishtine

Additional Literature:

4. Guy Hart Smith,How to do everything with exel,McGrawHill 2007
5. Mary Millhollom and Katherine Murray,Microsoft office, Word 2007,Microsoft Press
   ECDL - Book

NOTICE:

- In general presentations of lectures will be made through Power Point system, table, use of materials and computer software and the Internet.
- Also, the professor will be provided additional materials (papers, publications, national bulletins and sound research findings and final).
- In the absence of the possibility that practical work is organized every week, in cooperation with the management of the University, this activity will be organized on certain days, organizations, companies, farms, processing manufacturing unit.
- During each session, will be organized conversations with students.

NOTICE FOR STUDENT:

- The students are required to be regular in the lectures and exercises.
- The contribution of the students in the form of conversation with the students will be evaluated.
- Arrival time at lectures and exercises is mandatory.